

CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An imaging member possessing a collection efficiency proportional to an electric field, and which member is comprised of a first layer containing a photogenerating component and a mixture of a charge transport component and a polymeric binder, and wherein the charge transport component is comprised of a mixture of hole transport and electron transport components, ~~and a second layer in contact with said first layer, and which second layer is comprised of at least one hole transport component~~ wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is from about 1:45:25:15 to about 1:55:35:18.

2. (Cancelled).

3. (Cancelled).

4. (Cancelled).

5. (Cancelled).

6. (Cancelled).

7. (Cancelled).

8. (Original) An imaging member in accordance with claim 1 wherein the collection efficiency is proportional to an electric field at light with a wavelength of from about 350 to about 950 nanometers.

9. (Original) An imaging member in accordance with claim 1 wherein the weight ratio of the photogenerating component to charge transport component is from about 2:100 to about 5:100, and the collection efficiency is proportional to said electric field of from about 1 to about 50 V/ μ m of the imaging member at light of a wavelength of from about 780 nanometers.

10. (Original) An imaging member in accordance with claim 1 wherein said collection efficiency is proportional to the electric field at a xerographic process speed of about 40 mm/s to about 400 mm/s.

11. (Original) An imaging member in accordance with claim 1 wherein said collection efficiency is proportional to said electric field at a dark decay rate of about 1 V/s to about 2,000 V/s.

12. (Previously Presented) An imaging member in accordance with claim 1 wherein said first layer is of a thickness of from about 5 to about 60 microns wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is from about 1:46:27:16 to about 1:50:40:17.

13. (Currently Amended) An imaging member possessing a collection efficiency proportional to an electric field, and which member is comprised of a first layer containing a photogenerating component and a mixture of a charge transport component and a polymeric binder, and wherein the charge transport component is comprised of a mixture of hole transport and electron transport components,~~in accordance with claim 1~~ wherein the amounts for each of said components in said first layer is from about 0.05 weight percent to about 30 weight percent for the photogenerating component, from about 10 weight percent to about 75 weight percent for the charge transport component, and from about 10 weight percent to about 75 weight percent for the electron transport component, and wherein the total of said components is about 100 percent, and wherein said layer components are dispersed in from about 10 weight percent to about 75 weight percent of said polymer binder, and wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is about 1.4:48.6:32:18.

14. (Previously Presented) An imaging member in accordance with claim 1 wherein the amounts for each of said components in the first layer mixture is from about 0.5 weight percent to about 5 weight percent for the photogenerating component; from about 30 weight percent to about 50 weight percent for the charge transport component; and from about 5 weight percent to about 30 weight percent for the electron transport component; and which components are contained in from about 30 weight percent to about 50 weight percent of a polymer binder.

15. (Previously Presented) An imaging member in accordance with claim 1 wherein the thickness of said first layer is from about 10 to about 35 microns.

16. (Cancelled).

17. (Original) An imaging member in accordance with claim 16 wherein said binder is present in an amount of from about 50 to about 90 percent by weight, and wherein the total of all components of said photogenerating component, said charge transport component, said binder, and said electron transport component is about 100 percent.

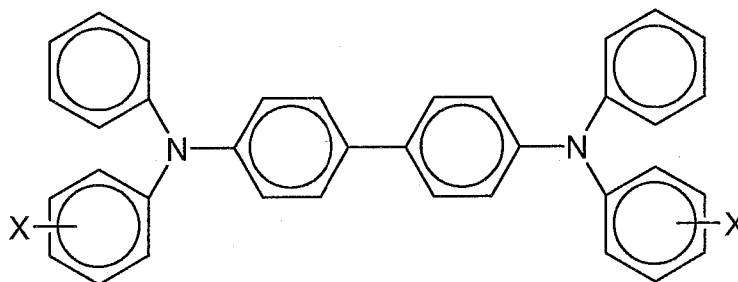
18. (Original) An imaging member in accordance with claim 1 wherein said photogenerating component absorbs light of a wavelength of from about 370 to about 950 nanometers.

19. (Original) An imaging member in accordance with claim 1 further containing a supporting substrate comprised of a conductive metal.

20. (Original) An imaging member in accordance with claim 19 wherein the substrate is aluminum, aluminized polyethylene terephthalate or polyethylene terephthalate.

21. (Previously Presented) An imaging member in accordance with claim 1 wherein the binder is selected from the group consisting of polyesters, polyvinyl butyrals, polycarbonates, polystyrene- b-polyvinyl pyridine, and polyvinyl formulas.

22. (Previously Presented) An imaging member in accordance with claim 1 wherein said hole transport component or components for said first layer and said second layer is comprised of molecules of the formula



wherein X is selected from the group consisting of alkyl, alkoxy and halogen.

23. (Original) An imaging member in accordance with claim 22 wherein alkyl contains from about 1 to about 10 carbon atoms, and wherein the charge transport is an aryl amine encompassed by said formula and which amine is optionally dispersed in a resinous binder.

24. (Original) An imaging member in accordance with claim 22 wherein alkyl is methyl, and wherein halogen is chloride.

25. (Currently Amended) An imaging member in accordance with claim 22 wherein said hole transport is comprised of molecules of N,N'-diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-diamine N,N'-diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-diamine.

26. (Original) An imaging member in accordance with **claim 1** wherein said electron transport component is (4-n-butoxycarbonyl-9- fluorenylidene) malononitrile, 2-methylthioethyl 9-dicyanomethylenefluorene-4- carboxylate, 2-(3-thienyl)ethyl 9-dicyanomethylenefluorene-4-carboxylate, 2-phenylthioethyl 9-dicyanomethylene fluorene-4-carboxylate, 11,11,12,12- tetracyano anthraquinodimethane or 1,3-dimethyl-10-(dicyanomethylene)- anthrone.

27. (Original) An imaging member in accordance with claim 1 wherein said electron transport component is (4-n-butoxycarbonyl-9- fluorenylidene) malononitrile.

28. (Original) An imaging member in accordance with claim 22 wherein said electron transport component is (4-n-butoxycarbonyl-9- fluorenylidene)malononitrile, 2-methylthioethyl 9-dicyanomethylenefluorene-4- carboxylate, 2-(3-thienyl)ethyl 9-dicyanomethylenefluorene-4-carboxylate, 2- phenylthioethyl 9-dicyanomethylene fluorene-4-carboxylate, 11,11,12,12- tetracyano anthraquinodimethane or 1,3-dimethyl-10-(dicyanomethylene)- anthrone.

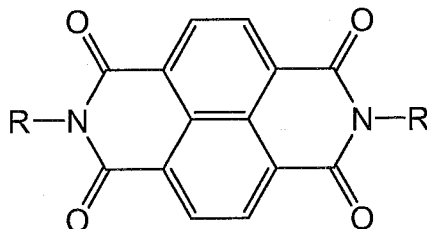
29. (Original) An imaging member in accordance with claim 1 further including a second photogenerating component of a titanyl phthalocyanine, a metal phthalocyanine other than titanyl phthalocyanine, a perylene, trigonal selenium, or mixtures thereof.

30. (Currently Amended) An imaging member in accordance with claim 11 wherein said electron transport is {4-n-butoxy carbonyl-9- fluorenylidene)malononitrile, and the charge transport is a hole transport of N,N'-diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4"-diamine-N,N'-diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-diamine molecules.

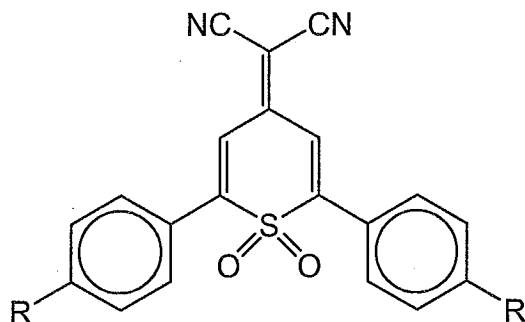
31. (Cancelled).

32. (Cancelled).

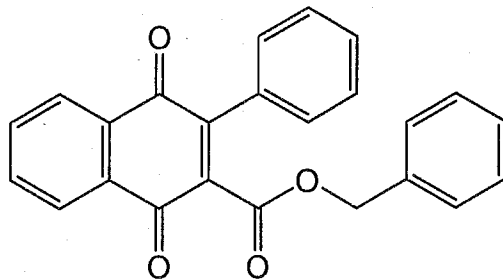
33. (Previously Presented) An imaging member in accordance with **claim 1** wherein said electron transport is selected from the group consisting of N,N'-bis(1,2-dimethylpropyl)-1,4,5,8-naphthalenetetracarboxylic diimide



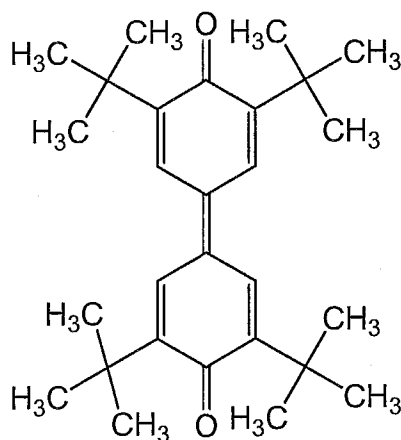
1,1'-dioxo-2-(4-methylphenyl)-6-phenyl-4-(dicyanomethylidene) thiopyran



wherein R is independently selected from the group consisting of hydrogen, alkyl with 1 to about 4 carbon atoms, alkoxy with 1 to about 4 carbon atoms and halogen, and a quinone selected from the group consisting of carboxybenzyl naphthaquinone

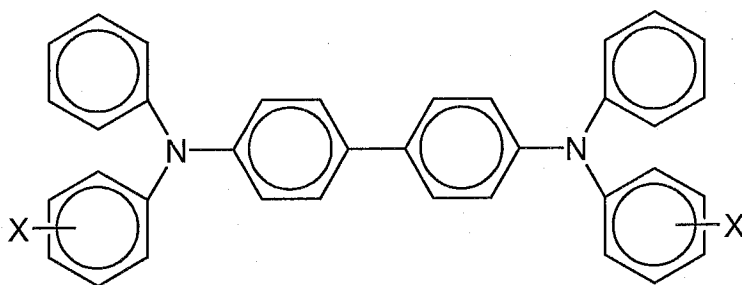


and tetra(t-butyl) diphenolquinone



and mixtures thereof.

34. (Previously Presented) An imaging member in accordance with **claim 1** wherein said binder is selected from the group consisting of polycarbonates, polystyrene-b-polyvinyl pyridine, N,N'-diphenyl-N,N'-bis(alkylphenyl)-1,1-biphenyl-4,4'-diamine; TTA, tri-p-tolylamine; AE-18, N,N'-bis-(3,4,-dimethylphenyl)-4-biphenyl amine; AB-16, N,N'-bis-(4-methylphenyl)-N,N''-bis(4-ethylphenyl)-1,1'-3,3'-dimethylbiphenyl)-4,4'-diamine; and PHN, phenanthrene diamine; and wherein the charge transport for said first layer and said second layer comprises aryl amine molecules of the formula



wherein X is selected from the group consisting of alkyl and halogen.

35. (Cancelled).

36. (Original) A method of imaging which comprises generating an electrostatic latent image on the imaging member of claim 11, developing the latent image, and transferring the developed electrostatic image to a suitable substrate.

37. (Previously Presented) A photoconductive imaging member comprised of a supporting substrate, and thereover a first layer comprised of a mixture of a photogenerator component, a charge transport component, an electron transport component, and a polymer binder, and wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is from about 1:45:25:15 to about 1:55:35:18. and thereover and in contact with said first layer a second layer wherein said second layer is comprised of a charge transport component and a resin binder.

38. (Original) A photoconductive imaging member in accordance with claim 37 wherein said photogenerating component is a metal free phthalocyanine.

39. (Previously Presented) A photoconductive imaging member in accordance with claim 37 wherein said charge transport component for said first and second layer is comprised of hole transport molecules.

40. (Cancelled).